

# STATE OF COLORADO

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Patti Shwayder, Executive Director

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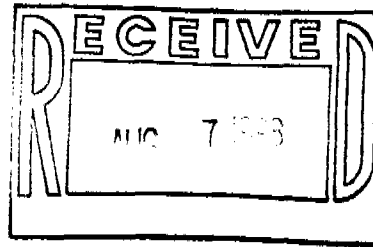
**HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION**  
<http://www.cdphe.state.co.us/hm/>

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Grand Junction, Colorado 81501-2768  
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Fax (970) 248-7198



**Colorado Department  
of Public Health  
and Environment**



August 20, 1998

Ted Hopkins  
Rocky Mountain Remediation Services, L.L.C.  
Rocky Flats Environmental Technology Site  
P.O. Box 464  
Golden, CO 80402-0464

**RE: Close-Out of the July 16, 1998 Inspection of the Clarified, 5001 Yard, and Building 891;  
EPA Identification Number C07890011526**

Dear Mr. Hopkins:

On July 16 and 17, 1998, inspectors from the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division") conducted a compliance evaluation inspection of the Clarifier, 5001 Yard, and Building 891.

Based upon the observations made during the July 16 inspection, a determination was made that Mr. John Law at Building 891 was not current on annual hazardous waste training. The Department recognizes that Building 891 is a CERCLA wastewater treatment facility. However, Building 891 treats wastewater that contains one or more listed hazardous waste. Therefore, the substantive portions of the Colorado Hazardous Waste Regulations are applicable requirements for personnel who manage hazardous waste at that facility and/or have the potential to be impacted by hazardous waste activities. Because Mr. Law was identified as an emergency point of contact for that facility, the Department believes that it is appropriate for Mr. Law to receive annual hazardous waste training.

As you pointed out in your July 27, 1998 response, documentation of such training is an administrative requirement and such documentation is not required from a CERCLA perspective. However, site procedures dictate documentation of all training via the Training and Scheduling Record (TSR) system, irrespective of whether such training is associated with a CERCLA action.

The Division appreciates your assistance as part of this inspection. Please contact Ed Smith of my staff at (303) 692-3386 if you have any questions regarding this memorandum or the close-out of the inspection.

Sincerely,

Joe Schieffelin, Unit Leader  
Federal Facilities Permitting and Compliance  
Hazardous Materials & Waste Management Division

cc w/Attach: Dan Miller, AGO  
James Hindman, CDPHE  
Cindy Burbach, CDPHE  
Janice Pearson, EPA

Bob April, DOE  
Bob Cathel, K-H  
Karan North, K-H



**ADMIN RECORD**  
IA-A00077

1/50

EPA I.D. #CO7890010526

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT

HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION

HAZARDOUS WASTE INSPECTION REPORT

DATE OF INSPECTION: July 16 and July 17, 1998

FACILITY: Rocky Flats Environmental Technology Site - US DOE,  
Clarifier, 5001 Yard, and Building 891

LOCATION: 16 miles NW of Denver  
Golden, CO 80402

FACILITY REP: Bob Cathel

TELEPHONE: 303-966-6880

TELEFAX:

NOTIFICATION STATUS: Large Quantity Generator  
Land Disposal Facility

TYPE OF INSPECTION: Compliance Evaluation Partial

PARTICIPANTS: James Hindman, CDPHE  
Edward Smith, CDPHE  
Bob Cathel, K-H  
Steve Kubinski, RMRS  
Russ Cirillo, RMRS

WEATHER CONDITIONS: Warm and Sunny

TIME IN: 7:00 am on July 16, 1998  
8:00 am on July 17, 1998

TIME OUT: 4:00 pm on July 16, 1998  
11:00 am on July 17, 1998

# **US DOE - Rocky Flats Environmental Technology Site Clarifier, 5001 Yard, and Building 891**

## **--- INTRODUCTION ---**

On the morning of July 16, 1998, inspectors James Hindman and Edward Smith from the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the Division) arrived at the Rocky Flats Environmental Technology Site (RFETS) to conduct a partial compliance evaluation inspection of the Clarifier, 5001 Yard, and Building 891. Bob Cathel of K-H was the central point of contact who had arranged visits to the units in question. Upon arrival at each area, Division inspectors introduced themselves and facility representatives were briefed on the purpose and scope of the visit.

## **--- OPERATIONS INSPECTED ---**

Accompanied by facility representatives, Division inspectors observed waste removal activities at the Clarifier, all areas of the 5001 Yard, and all areas of Building 891 (i.e., the CERCLA wastewater treatment plant). Each of the areas visited are discussed in the following paragraphs.

### **Clarifier Waste Removal**

Division inspectors arrived at the Clarifier at approximately 7:30 am where they met with Mr. Richard Garcia. Mr. Garcia explained that pumping had been slow in part to a screen that was being used to prevent large items from entering the hose and damaging the pump. A screen of approximately 1/4 inch was being used, but it was being replaced with a screen of 1 1/2 inches. Facility representatives stated that the peristaltic pump being used can handle pieces of up to one inch in diameter. Facility representatives also indicated that the first Intermediate Bulk Container (IBC) that was filled with sludge weighed 1,700 pounds with approximately 12 inches of head space. Facility representatives further stated that the weight limit on the 275 gallon IBCs is 3,847 pounds.

Facility representatives transferred a clean IBC to the waste transfer area that was equipped with a scale to begin waste transfer activities. The IBC weighed 239 pounds and 25 pounds were added when the transfer hose was connected for a total empty weight of 264 pounds. Waste transfer operations began at approximately 8:00 am and stopped at approximately 8:45 am. Waste was being pumped out of the top of the tanks because the bottom valve is frozen closed and cannot be opened. According to facility representatives, waste transfer operations have been limited and terminate at approximately 10:00 am each day due to worker safety related to the summer heat (approximately 90 degree plus heat). Clarifier waste is being transferred to three 10,000 gallon tanks at the 750 Pad. At approximately 8:45 am, the workers stopped waste transfer activities to take a break, as required by their health and safety procedures. At that time,

the IBC weighed 997 pounds total with the waste transfer hose still connected, which equates to approximately 70 gallons of waste assuming 8 to 13 pounds per gallon of waste.

Prior to leaving the Clarifier, Division inspectors wrote down some employee numbers in order to check training records for individuals involved with the waste transfer activities. No deficiencies were noted as a result of checking the training records for those individuals.

### **5001 Yard**

At approximately 9:25 am on July 16, 1998, Division inspectors proceeded to the 5001 Yard where they met with Mr. Steve Kubinski and Ms. Veronica Orozco, both of RMRS. Steve explained that the 5001 Yard is used for the management of recyclable materials, such as used oil, lead acid batteries, circuit boards, and photographic silver solutions and film. Steve also indicated that the 5001 Yard is used for the storage of non-hazardous wastes such as excess chemicals and spill residue from oil and/or diesel fuel releases. Steve stated that there are currently a total of 25 cargo containers that make up the 5001 Yard. However, efforts are underway by K-H to reduce the number of cargo containers to the minimal necessary to support site activities.

During the inspection, Division inspectors observed that all containers of used oil had been appropriately labeled with the words "Used Oil". The facility had also labeled containers of product oil with the words "Used Oil", although not required from a regulatory perspective. Division inspectors observed several containers in cargo container number 4 that were dented. In particular, Division inspectors noted that container G047883 was in the worst condition and indicated, during the close-out meeting, that the contents should be transferred to a container that is in good condition. However, the oil in question was confirmed to be a product oil and, thus, is not subject to the used oil requirements. Therefore, the issue is a moot point.

During the inspection, Division inspectors observed several containers and boxes of material destined for reclamation of silver. The containers in question included three 15-gallon containers of photographic solution, four 55-gallon containers of photographic solution, and 12 boxes of photographic film containing silver in cargo container number 6. Facility representatives indicated that all silver bearing materials are recycled on an annual basis. Division inspectors requested an inventory of the amounts of material in storage on January 1, 1997 and the amounts of materials recycled for that calendar year in order to assess the possibility of speculative accumulation. No issues were identified after reviewing the information on this matter that was provided by K-H.

Division inspectors observed one 55-gallon container in cargo container number 8 that contains sodium sulfite and sodium phosphate tribasic. A concern was noted on the Notice of Inspection as to whether sodium sulfite is a water reactive waste that should be designated as D003. A review of the associated MSDS for this material indicated that contact with water should be

avoided because such contact can generate toxic and corrosive materials. However, a review of the response provided by KH and a review of chemical literature by Division inspectors concluded that sodium sulfite is not a water reactive material and, thus, should not be designated as a D003 reactive hazardous waste.

Division inspectors observed two containers (GO11795 and GO11785) in cargo container number 26 with labels that read "reverse osmosis filters from formaldehyde spill - used". Division inspectors questioned whether the waste should be assigned the hazardous waste code of U122 for waste unused formaldehyde. Based upon discussions with facility representatives and a review of the associated Waste Travelers, Division inspectors concluded that the formaldehyde in question was not an unused chemical and, thus, the U122 listing would not have been appropriate.

Division inspectors observed three containers of the 39 total in cargo container number 27. Two of the containers were identified as holding diesel fuel absorbed on soil and rock and the other container was identified as holding gasoline and stardust. A concern was raised as to whether these wastes contain benzene above regulatory levels. A review of the analytical data contained in the associated Waste Travelers indicated that benzene was not detected and was presumed to have volatilized prior to sampling.

#### **Building 891 (CERCLA Wastewater Treatment Plant)**

At approximately 1:00 pm on July 16, 1998, Division inspectors arrived at Building 891 where they met with Russ Cirillo, Project Manager, RMRS and Robert Olson, RTG Inc. Who presented the building indoctrination. Russ provided an overview of the facility and indicated that the wastes received for treatment originate from a number of sources including the 881 French Drain, Seeps from OU1 and OU2, tanker trucks and small portable containers used for the collection of groundwater. Generally speaking, this facility uses pH adjustment to precipitate metals and uranium, ultra-violet oxidation (UV-Ox) to remove organic compounds, carbon filtration to remove organic chemicals that are not readily treated via the UV-Ox process, and ion exchange to remove residual uranium, metals, nitrate, sulfate, and chloride ions.

Outside of the facility is a 10,000 gallon tank (900-T-200) which is used as an influent storage tank. There are also 4 large tanks of 500,000 gallons capacity each located on the south side of the building. Two of those tanks are used as influent tanks (891-T-201 and 891-T-202 of 15,000 gallons capacity each) and two are used as intermediate process tanks.

Inside two trailers (T900A and T900B) on the south side of the building are the tanks and equipment utilized for chemical precipitation. Sulfuric acid is used to lower the pH of the influent material and ferric sulfate is used as a flocculent. After the metals precipitate via lowering the pH, the pH of the wastewater is then raised using sodium hydroxide and pumped through microfilters. The wastewater is then pumped to a sludge holding tank (900-B T-12) and then to a filter press. The sludge is then containerized and transferred to permitted storage where it is managed as a hazardous waste.

Inside Building 891 are the process tanks and equipment for the UV-Ox and carbon filtration processes. Hydrogen peroxide is used to degrade organic compounds and is injected at a rate of 30 gallons per minute, when the system is operating. The wastewater then is passed through carbon filters to remove any organics that are not readily treated by the UV-Ox process. Wastewater is then pumped to a series of ion exchange columns. The first resin is used to remove residual uranium, the second resin is used to remove calcium and magnesium, the third resin is used for metals removal, and the fourth resin is used to remove the sulfate, nitrate, and chloride ions. The effluent is then transferred to three 159,000 gallon effluent tanks located west of Building 891 and identified as 891-T-205 through 891-T-207.

Facility representatives indicated that daily inspections of the tanks systems are conducted and that all operators have received RCRA hazardous waste training. Training records for a variety of persons were requested including three individuals that were identified as emergency points of contact (i.e., Ty Vess, Frank Huffman, and John Law). A review of TSRs for those individuals concluded that John Law is not current on annual RCRA training.

### **--- DOCUMENTS REVIEWED ---**

After completing the physical inspection, Division inspectors reviewed the following documents:

1. Training records for personnel involved with the waste transfer activities at the Clarifier and personnel who work at Building 891. No issues were identified with personnel who were involved with the Clarifier clean out activities.
2. A number of Waste Travelers for containers identified at the 5001 Yard.

### **--- INSPECTION CLOSE-OUT ---**

As a result of the inspection, a number of issues were shared with facility representatives as discussed below:

1. Drum G047883 at the 5001 Yard, Cargo Container 4 is severely dented. Containers storing used oil must be in good condition and free of structural defects or deterioration per 6 CCR 1007-3, Section 279.22(b)(1). Based upon the response by KH, the container in question contained product oil and, thus, is not subject to the used oil requirements.
2. John Law was identified as an emergency point of contact for Building 891. However, a review of his TSR indicated that he is not current on annual RCRA hazardous waste training. Although this unit is a CERCLA treatment unit, RCRA remains an applicable requirement because the wastewater in question "contains" listed hazardous waste. Therefore, personnel who work at that facility, including any person identified as a point

of contact in the event of an emergency, such as a release of a hazardous waste, must receive annual RCRA hazardous waste training. Documentation of such training would not be required, because such action would be an administrative requirement. However, RFETS maintains all training records as part of each individual's TSR, irrespective of the CERCLA issue. Therefore, Mr. John Law must receive annual RCRA hazardous waste training or be removed from the responsibility of being a point of contact for Building 891.

3. Drum number X04832 containing sodium sulfite was designated as being non-hazardous but the associated MSDS states that contact with water produces toxic and corrosive materials. Division inspectors requested that a determination be made as to whether this chemical should be classified as a D003 reactive hazardous waste. Based upon a review of chemical literature and the response by KH a determination has been made that sodium sulfite is not a water reactive chemical.
4. Drum X01751 contains ferric chloride, according to the Waste Traveler, and was designated as a non-hazardous waste. Ferric chloride is a water reactive chemical producing toxic and corrosive fumes when in contact with water. Division inspectors requested KH to verify the hazardous waste determination for this chemical. A review of the drum contents by KH concluded that the chemical in question was actually ferric chloride hexahydrate, which is not a water reactive chemical.
5. Division inspectors requested the amount of material being held for recovery of silver that was in storage on January 1, 1997 and the amount of silver bearing material that was actually recycled during 1997. Based upon information provided by KH, only a small percentage of the material received during calendar year 1997 was not recycled (i.e., 0.8% was not recycled during 1997). Therefore, speculative accumulation of silver bearing materials destined for recycling was not identified as a concern for calendar year 1997.
6. Division inspectors requested copies of the Waste Travelers for Drums X01751 and X04832.

Bob Cathel signed the Notice of Inspection (NOI) as the KH facility representative. Division inspectors left a copy of the NOI with the facility representative and ended the inspection at approximately 11:00 am on July 17, 1998.

### **--- INSPECTION FINDINGS ---**

As discussed above, the only issue associated with this inspection was the need for Mr. John Law to receive RCRA hazardous waste training on an annual basis, if he is to maintain the position of being an emergency point of contact for Building 891.

--- SIGNATURE BLOCK ---

Prepared by: Edward H. Smith Date 8/13/98  
Edward Smith

Reviewed by: James A. Hindman Date 8/13/98  
James Hindman

Approved by: Joe Schieffelin Date 8/19/98  
Joe Schieffelin

--- ATTACHMENTS ---

1. Notice of Inspection
2. KH Response to the Notice of Inspection



# **Attachment One**

## **Notice of Inspection**

102.

## Notice of Inspection

Facility Name <u>Rocky Flats; Clarifier,</u> <u>5001 Yard and Bldg 891</u>		EPA I.D. # <u>C07890010526</u>	Date <u>7/15 -</u> <u>7/17/98</u>
Street <u>PO BOX 928</u>		Telephone # <u>966-7000</u>	Seq. # <u>N/A</u>
City <u>Golden</u>	County <u>Jefferson</u>	Zip <u>80402</u>	Inspection Arranged Prior to Inspection <input checked="" type="checkbox"/> Yes ( ) No
Facility Representatives and Titles <u>Bob Cathel, KH EM&amp;C</u>		Enter By: <input checked="" type="checkbox"/> Consent ( ) Warrant	Hour In: <u>7:00 am</u> Hour Out: <u>11:am 7/17</u>
NOTIFICATION(S): <input checked="" type="checkbox"/> LQG, <input type="checkbox"/> SQG, <input type="checkbox"/> Exempt, <input checked="" type="checkbox"/> LDF, <input type="checkbox"/> TSF, <input type="checkbox"/> Transporter, <input type="checkbox"/> Non-Notifier, or <input type="checkbox"/> Other _____		Agency: <input checked="" type="checkbox"/> State ( ) Oversight ( ) Joint	
If Status Changed, Facility Should Revise Notification			

### COMMENTS:

1. Drum G047883 at the 5001 Yard, Cargo Container #4 is severely dented. Containers storing used oil must be in good condition per 6 cCR 1007-3, section 279.22(b)(1).
2. At Bldg. 891, John Law is identified as a point of contact in the event of an emergency. His TSR indicates that he has not received RCRA Hazardous waste training. Because RCRA is an ARAR, Mr. Law should be trained in RCRA waste management if he will continue to be the POC in the event of an emergency.

**Compliance Assistance:** ☐ Compliance Information ☐ Referral to Compliance Assistance ☐ Pollution Prevention ☐ Field Assistance

Samples, Documents, Plans, and / or Photos Collected	4.
1.	5.
2.	6.
3.	7.

Samples requested and received by facility: ( ) Yes ( ) No If Yes: ( ) Duplicate ( ) Split

The facts established by this inspection will be reviewed by State personnel. A final determination of your facility's compliance with State Regulations will be made as a result of this review. The review may reveal additional violations.

Receipt of this Notice of Inspection Form is Acknowledged

Bob Cathel 7/17/98

Signature of Facility Representative

Lead Inspector:

Ed Smith

Assisting Inspector(s) and Multimedia Participant(s):

James Hindman

Colorado Department of Public Health and Environment  
Hazardous Materials and Waste Management Division  
4300 Cherry Creek Drive South, Mail Code: HMWMD-HWC-B2, Denver, CO 80246-1530  
(303) 692-3300

NOTICE OF INSPECTION

Page 2 of 2

FACILITY: Rocky Flats	EPA ID#: CO7890010526	DATE: 7/17/98
N.O.I. COMMENTS (continued):		
<p>3. Drum X04832 was designated as non-haz but contains Sodium Sulfite. The attached MSDS states that contact with water produces toxic and corrosive materials. Determine if the waste code of D003 applies and if so move this drum to a permitted storage unit. (6CCR 1007-3 § 262.11, 262.34 + 100.10)</p>		
<p>4. Drum X01751 contains at least 3 containers of Ferric Chloride and has been designated as non-haz. Ferric chloride is water reactive producing toxic and corrosive fumes with water. Determine if <del>this</del> this waste is hazardous (D003) and if so move this drum to a permitted storage unit. (6CCR 1007-3 § 262.11, 262.34 + 100.10)</p>		
<p>5. Provide the amount of materials in storage for recycling of precious metals (i.e. silver @ 500/yard) on January 1, 1997 and <del>January 1, 1997</del> the amount of material recycled during 1997.</p>		
<p>6. Provide copies of the waste travelers # X01751 and X04832 with the response to this inspection.</p>		
<p>Provide a written response to these issues by July 28, 1998.</p>		

## **Attachment Two**

### **KH's Response to the Notice of Inspection**



RF-98-03841

Mr. Ed Smith  
Hazardous Materials & Waste Management Division  
Colorado Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

RESPONSE TO NOTICE OF INSPECTION DATED 7/17/98, FOR CLARIFIER, UNIT 5001  
AND BUILDING 891 - BLC-005-98

Mr. Smith:

Enclosed you will find the response as requested to the above referenced Notice of Inspection (NOI). This response includes the Rocky Mountain Remediation Services, L.L.C. letter to Mr. John Wrapp as well as all attachments as stated.

If you have any questions please feel free to call me at (303) 966-6880.

*Bob Cathel*  
Bob Cathel

Enclosure:  
As stated

Kaiser-Hill Company, L.L.C.

Courier Address: Rocky Flats Environmental Technology Site, State Hwy. 93 and Cactus, Rocky Flats, CO 80007 • 303.966.7000

Mailing Address: P.O. Box 464, Golden, Colorado 80402-0464



Rocky Mountain  
Remediation Services, L.L.C  
... protecting the environment

## MEMORANDUM

DATE: July 27, 1998

TO: John Wrapp, K-H Environmental Compliance Mgr., T130C, X5883

FROM: T. Hopkins, RMRS Environmental Compliance Mgr., Bldg. 116, X-7652

SUBJECT: RESPONSE TO CDPHE NOTICE OF INSPECTION DATED 7/17/98, FOR U-5001, AND BUILDING 891 OF 7/15/98

CDPHE inspectors Ed Smith and James Hindman inspected RMRS non-regulated waste storage area Unit-5001 (PU&D Cargoes), the clarifier tank, and Building 891 on Thursday, July 16, 1998.

### COMMENT #1:

The NOI reads, "Drum G04788 at the 5001 Yard, Cargo Container #4 is severely dented. Containers storing used oil must be in good condition per 6 CCR 1007-3, Section 279.22(b)(1)".

**RESPONSE:** Drum G04788 is an unused manufacturer's product drum of MobilGuard 450 oil with the manufacturer's seals still in place. There is a dent approximately twelve inches long and one inch deep in the top third of the drum. The drum continues to be structurally sound and in good condition to be shipped per Department of Transportation guidelines. 40 CFR 279.22(b)(1) defines in good condition as no severe rusting, apparent structural defects or deterioration. Since this drum is not leaking and is fit for shipment per DOT requirements, RMRS feels that this drum meets the 40 CFR 279.22(b)(1) definition of "in good condition". It is judgment call of the generator. It is our intention to ship this drum "as is" rather than create an additional empty waste drum.

### COMMENT #2:

The NOI reads, "At Building 891, John Law is identified as a Point-of-Contact (POC) in the vent of an emergency. His TSR indicates that he has not received RCRA Hazardous Waste Training. Because RCRA is an ARAR, Mr. Law should be trained in RCRA waste management if he will continue to be the POC in the event of an emergency.

**RESPONSE:** Mr. Law was designated as the third POC on a sign entering the building. Mr. Law has taken the 40 hour OSHA course, the 8 hour refresher, Incident Commander Training and has over 10 years experience on CERCLA/RCRA Hazardous Waste Sites. His experience and training is more than adequate to qualify Mr. Law as a POC for this facility.

14

Whether or not he has documented "RCRA Waste Management Training" is clearly an administrative requirement.

**COMMENT #3:**

The NOI reads, "Drum X04832 was designated as non-hazardous but contains sodium sulfite. The attached MSDS states that contact with water produces toxic and corrosive materials. Determine if the waste code of D003 applies and, if so, move this drum to a permitted storage unit. (6 CCR 1007-3 Sections 262.11, 262.34, and 100)".

**RESPONSE:** Sodium sulfite was characterized by the generator as non-hazardous in January of 1996. Concurrence that sodium sulfite does not meet the criteria for RCRA reactivity was obtained per telephone conference with the K-H Team Reactive Chemical Program Manager. (See Attachment #1)

**COMMENT #4:**

The NOI reads, "Drum X01751 contains at least three containers of ferric chloride and has been designated as non-hazardous. Ferric chloride is water reactive producing toxic and corrosive fumes with water. Determine if this waste is hazardous (D003) and, if so, move this drum to a permitted storage unit. (6 CCR 1007-3 Sections 262.11, 262.34, and 100.10)".

**RESPONSE:** The MSDS provided by the generator shows ferric chloride *anhydrous*, which would indeed be water reactive (D003). Physical verification of the chemical containers within this drum revealed all three containers to be ferric chloride 6-hydrate (or ferric chloride hexahydrate). The hexahydrate form of this chemical does not meet the definition of water reactive (D003). Concurrence with this characterization of non-hazardous was obtained per telephone conference with the Reactive Chemical Program Manager. (See Attachment #2)

**COMMENT #5:**

The NOI reads: "Provide the amount of materials in storage for recycling of precious metals (i.e. silver @ 5001 Yard) on January 1, 1997 and the amount of material recycled during 1997".

**RESPONSE:** On January 1, 1997 RMRS had no material in storage at PU&D/U-5001 for precious metals recovery (i.e. silver). One shipment of such materials was made at the end of the calendar year to AMR Industries, Inc. of Phoenix, Arizona on 12/31/97 (please see attached copy of RFETS Shipping Memo No. 21557, Attachment #3). This shipment amounted to an actual weight of 3,915 pounds. Two boxes of circuit boards (WEMS # X08771) for silver reclamation were collected and remained in U-5001 by the end of 1997 which did not make this shipment. X08771 comprises 30 pounds of material, which equates to 0.8% of materials not sent for precious metals recovery during calendar year 1997.

**COMMENT #6:**

The NOI reads: "Provide copies of the waste travelers #X01751 and X04832 with the response to this inspection".

**RESPONSE:** The travelers are provided for your review as attachment #4.



# ATTACHMENT #1

17

# Excess Chemical Disposition Form

NOTE: Upon completion of each respective part of this form, notify the Chemical Custodian of its status.

Follow the routing flow identified in Part C Comments.

All applicable blanks must be filled in or marked N/A.

WRP Logging #

## PART A: (To be completed by the Chemical Custodian)

Chemical Custodian: \_\_\_\_\_ Ext.: \_\_\_\_\_ Pager: \_\_\_\_\_ Date: \_\_\_\_\_  
Department: \_\_\_\_\_ Building: \_\_\_\_\_  
Name of Material: Sodium Sulfite  
CAS No.: \_\_\_\_\_ Manufacture: JT Baker  
Bar code No.: \_\_\_\_\_ Location Code No.: \_\_\_\_\_ WEMS Bar code No.: X05344, X05345  
Physical State: Powder Quantity (specify units): 2116  
Container Type: Amber glass bottles Container Size: 1 lb Original Container: yes  
Container Seal Broken: no Container Condition: good  
Location: Bldg.: 556 Room: 1 Radioactive: no Chemical Expiration Date: \_\_\_\_\_  
Detailed Description of Waste: \_\_\_\_\_

Description of Other Information Available to Allow Accurate Characterization: \_\_\_\_\_

UPON COMPLETION OF THIS SECTION RETURN THE ORIGINAL TO CHEMICAL MANAGEMENT PROGRAMS IN BUILDING T-121-A

## PART B: (To be completed by Excess Chemical Custodian)

\_\_\_\_\_ Chemical is eligible to be included in Waste Minimization Program for on site reuse. Paperwork submitted on \_\_\_\_\_  
\_\_\_\_\_ On site reuse efforts were successful. The chemical was transferred to \_\_\_\_\_ on \_\_\_\_\_  
\_\_\_\_\_ On site reuse efforts were unsuccessful. Off site reuse efforts continue to be pursued.  
\_\_\_\_\_ Chemical is eligible to be included in Prop. Utilization & Disp. Program for off site reuse. Paperwork submitted on \_\_\_\_\_  
\_\_\_\_\_ Off site reuse efforts were successful. See PDR # \_\_\_\_\_  
\_\_\_\_\_ Both off site and on site reuse efforts were unsuccessful. The chemical will be managed as waste.  
\_\_\_\_\_ Chemical is ineligible for reuse and will be managed as waste. FORWARD ORIGINAL TO WASTE REGULATORY PROGRAMS.

## PART C: (To be completed by a Waste Representative / Chemical Custodian)

Waste Regulatory Programs Representative: DRP Ext.: 390 Pager: 1369 Date: 1/10/96  
RCRA Regulated: yes: \_\_\_\_\_ no: X If yes, EPA Hazardous Waste No.(s): N/A  
Compatibility/Incompatibility Code(s): N/A WFC/IDC: 1545 OCC: C4 LDR Codes: \_\_\_\_\_  
Regulatory Rationale: Characteristic(s): N/A Listing(s): N/A  
Comments: \_\_\_\_\_

UPON COMPLETION OF THIS SECTION FORWARD TO CHEMICAL CUSTODIAN

## PART D: (Waste and Environmental Management Systems) Notify the WEMS coordinator upon final disposition of waste.

List or attach additional WEMS Bar code here:

WEMS Bar Code No.:

## PART E: (To be completed by a Waste Operations representative)

Representative: \_\_\_\_\_ Ext.: \_\_\_\_\_ Pager: \_\_\_\_\_ Date: \_\_\_\_\_  
Waste Disposition: \_\_\_\_\_  
Comments: \_\_\_\_\_

## PART F: (To be completed by Traffic representative - required for lab packing or storage/shipment)

Traffic Representative: JOHN COLLINS Ext.: 7780 Pager: 3899 Date: 1-31-96  
DOT Proper Shipping Name: \_\_\_\_\_  
DOT Hazard Class: \_\_\_\_\_ Subsidiary: \_\_\_\_\_  
DOT UN No.: \_\_\_\_\_ Drum No.: \_\_\_\_\_  
Packaging Requirements: \_\_\_\_\_

Comments: NOT DOT REGULATED

UPON COMPLETION OF THIS FORM RETURN THE ORIGINAL TO WASTE REGULATORY PROGRAMS IN BUILDING T-130-C

RF-47792(5/95) Destroy Previous Issues

18



222 Red School Lane  
Phillipsburg, NJ 08865

24-Hour Emergency Telephone 908-859-2151  
National Response Center 800-424-8802  
Chemtrec 800-424-9300

Outside U.S. and Canada  
Chemtrec 202-483-7816

FICHE  
SIGNALETIQUE

HOJAS DE DATOS  
DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemical. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

S5066 -04  
Effective: 03/09/92

~~Sodium Sulfite~~, Anhydrous

Page: 1  
Issued: 10/05/93

J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sodium Sulfite, Anhydrous  
Common Synonyms: Disodium Sulfite; Exsiccated Sodium Sulfite  
Chemical Family: Inorganic Sodium Compounds  
Formula:  $\text{Na}_2\text{SO}_3$   
Formula Wt.: 126.04  
CAS No.: 7757-83-7  
NIOSH/RTECS No.: WE2150000  
Product Use: Laboratory Reagent  
Product Codes: 3888,3922

RECEIVED  
JUN 6 1993  
INDUSTRIAL  
HYGIENE

PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* System

HEALTH	FLAMMABILITY	REACTIVITY	CONTACT
1	0	1	1
SLIGHT	NONE	SLIGHT	SLIGHT

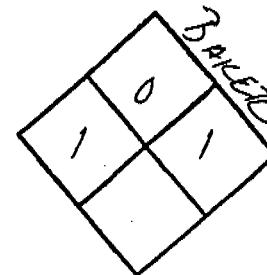
Laboratory Protective Equipment



GOGGLES



LAB  
COAT



U.S. Precautionary Labeling

CAUTION!

MAY CAUSE IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE ALLERGIC REACTION.

During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Continued on Page: 2

0009



222 Red School Lane  
Phillipsburg, NJ 08865  
24-Hour Emergency Telephone 908-859-2151  
National Response Center 800-424-8802  
Chemtrec 800-424-9300

Outside U.S. and Canada  
Chemtrec 202-483-7616

FICHE  
SIGNALÉTIQUE

HOJAS DE DATOS  
DE SEGURIDAD

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S5066 -04  
Effective: 03/09/92

Sodium Sulfite, Anhydrous

Page: 2  
Issued: 10/05/93

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PRECAUTIONARY LABELING (CONTINUED)

=====

International Labeling

Irritating to respiratory system.  
Do not breathe dust. Avoid contact with skin and eyes.

SAF-T-DATA\* Storage Color Code: Orange (general storage)

=====

SECTION II - COMPONENTS

=====

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Sodium Sulfite, Anhydrous	7757-83-7	98-100	N/E	N/E

=====

SECTION III - PHYSICAL DATA

=====

Boiling Point: N/A

Vapor Pressure (mmHg): N/A

Melting Point: N/A

Vapor Density (air=1): N/A

Specific Gravity: 2.63  
(H<sub>2</sub>O=1)

Evaporation Rate: N/A

Solubility(H<sub>2</sub>O): Appreciable (>10%)

% Volatiles by Volume: 0  
(21°C)

pH: N/A

Odor Threshold (ppm): N/A

Physical State: Solid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: White crystals or powder. Odorless.



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S5066 -04  
Effective: 03/09/92

Sodium Sulfite, Anhydrous

Page: 3  
Issued: 10/05/93

=====

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

=====

Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards

None identified.

Toxic Gases Produced

sulfur dioxide

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

=====

SECTION V - HEALTH HAZARD DATA

=====

Threshold Limit Value (TLV/TWA): Not Established

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Intraperitoneal Mouse LD<sub>50</sub> for Sodium Sulfite, Anhydrous 950 mg/kg

Intravenous Rat LD<sub>50</sub> for Sodium Sulfite, Anhydrous 115 mg/kg

Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No



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CANUTEC 813-996-6666

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S5066 -04  
Effective: 03/09/92

Sodium Sulfite, Anhydrous

Page: 4  
Issued: 10/05/93

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SECTION U - HEALTH HAZARD DATA (CONTINUED)

=====

Carcinogenicity

None identified.

Reproductive Effects

None identified.

Effects of Overexposure

INHALATION: irritation of mucous membranes, irritation of upper respiratory tract

SKIN CONTACT: irritation

EYE CONTACT: irritation

SKIN ABSORPTION: none identified

INGESTION: gastrointestinal irritation, nausea, vomiting, unconsciousness, central nervous system depression, allergic reaction may develop, aching muscles, may be fatal

CHRONIC EFFECTS: none identified

Target Organs

brain, GI tract, respiratory system, skin

Medical Conditions Generally Aggravated by Exposure

asthma

Primary Routes of Entry

inhalation, skin contact

Emergency and First Aid Procedures

INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.



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Chemtec 800-424-9300

CANUTEC 613-996-6666  
Outside U.S. and Canada  
Chemtec 202-483-7616

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S5066 -04  
Effective: 03/09/92

Sodium Sulfite, Anhydrous

Page: 5  
Issued: 10/05/93

SECTION V - HEALTH HAZARD DATA (CONTINUED)

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Extremely Hazardous Substance: No

CERCLA Hazardous Substance: No

SARA 313 Toxic Chemicals: No

TSCA Inventory: Yes

SECTION VI - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: heat, moisture

Incompatibles: strong oxidizing agents, strong acids

Decomposition Products: oxides of sulfur, oxides

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge

Wear suitable protective clothing. Carefully sweep up and remove.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

Continued on Page: 6

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Chemtrec 202-483-7616

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S5066 -04

Sodium Sulfite, Anhydrous

Page: 6

Effective: 03/09/92

Issued: 10/05/93

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT (CONTINUED)

Eye/Skin Protection: Safety goggles, rubber gloves are recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA\* Storage Color Code: Orange (general storage)

Storage Requirements

Keep container tightly closed. Suitable for any general chemical storage area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  
Marine Pollutants: No

AIR (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

U.S. Customs Harmonization Number: 28321000008

NOTE: When handling liquid products, secondary protective containers must be used for carrying.

-N/A = Not Applicable, or not Available;

N/E = Not Established.-

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular

Continued on Page: 7

nnnn





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S5066 -04

Sodium Sulfite, Anhydrous

Effective: 03/09/92

Page: 7

Issued: 10/05/93

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application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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\* TRADEMARKS OF J.T.BAKER INC.

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Approved by Quality Assurance Department.

45 APR 30 1992

REVIS DATE: 8/15/91  
CHANGE NO.: 0743For Assistance, Contact:  
Regulatory Affairs Dept.  
PO Box 907 Ames, IA 50010  
(505) 227-4224HACH COMPANY  
PO BOX 907  
AMES, IA 50010Emergency Telephone #  
Rocky Mountain Poison Ctr.  
(800) 623-5714

## I. PRODUCT IDENTIFICATION

PRODUCT NAME: Sodium Sulfite Anhydrous  
CAS NO.: 7757-83-7  
FORMULA: Na2SO3  
CHEMICAL NAME: Sodium Sulfite  
CHEMICAL FAMILY: Reducing Agents

## II. INGREDIENTS

Sodium Sulfite Anhydrous  
PCT: >98 CAS NO.: 7757-83-7 SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: Moderately toxic; sensitizerImpurities  
PCT: <2 CAS NO.: NA SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: Toxicity unknown; may cause irritation

## III. PHYSICAL DATA

STATE: solid APPEARANCE: Small, white crystals or powder  
ODOR: Not determined SOLUBILITY IN: WATER: 1 part/3.2 parts H2O  
ACID: Not determined OTHER: Glycolic BOILING POINT: NA  
MELTING PT.: Decomposes SPEC GRAVITY: 2.633 pH: at eq soln.: 7  
VAPOR PRESSURE: Not applicable VAPOR DENSITY (air=1): NA  
EVAPORATION RATE: NA METAL CORROSIVITY - ALUMINUM: NO STEEL: NO  
STABILITY: Stable  
STORAGE PRECAUTIONS: Store tightly closed in a cool, dry place.

## IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: Not applicable METHOD: NA  
FLAMMABILITY LIMITS - LOWER: NA UPPER: NA  
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None  
SHOCK SENSITIVITY: None AUTOCCELERATION PT.: NA  
EXTINGUISHING MEDIA: carbon dioxide, dry chemical  
FIRE/EXPLOSION HAZARDS: May emit very toxic fumes  
HAZARDOUS DECOMP. PRODUCTS: Fumes of Na2S & SO2, SO3 & SO2; corrosive  
fumes in contact with water or acid  
OXIDIZER: No NFPA Codes: Health: 3 Flammability: 0 Reactivity: 1  
CONDITIONS TO AVOID: Excessive heat, which may cause decomposition; contact  
with water or steam, which can produce a toxic and corrosive material

## V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: Irritating to eyes, skin, respiratory tract, and may  
cause allergic respiratory tract reaction.  
ACUTE TOXICITY: Oral rabbit LD50 = 2825 mg/kg = Moderately toxic  
ROUTES OF EXPOSURE: Ingestion  
TARGET ORGANS: central nervous system  
CHRONIC TOXICITY: Not determined  
ROUTES OF EXPOSURE: Not determined  
TARGET ORGANS: Not determined  
CANCER INFORMATION: Not applicable  
ROUTES OF EXPOSURE: Not applicable  
TARGET ORGANS: Not applicable  
OVEREXPOSURE: Stomach and central nervous system disturbances; may cause  
respiratory sensitization  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory conditions such as  
asthma

## VI. PRECAUTIONARY MEASURES

Avoid contact with eyes, skin and clothing  
Do not breathe dust.  
Wash thoroughly after handling.  
PROTECTIVE EQUIPMENT: adequate ventilation, lab grade goggles, disposable  
gloves

## VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes.  
provision. Wash skin with soap and plenty of water.  
INGESTION: Give large quantities of water. Call physician immediately.  
INHALATION: Remove to fresh air. Give artificial respiration if necessary.  
Call physician.

## VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Cover spill with an equal volume of soda ash  
Add water, if necessary, to form a slurry and sweep to a bunker. Dilute  
with more water and add a small amount of calcium hypochlorite. Allow to  
stand for 24 hours. Check the pH and adjust to a pH between 8 and 9, if  
necessary. Flush oxidized material to the drain with excess water.  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

## IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: Not applicable ID: NAI.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: NA ID: NA GROUP: NAI.N.O. PROPER SHIPPING NAME: Not Currently Regulated  
HAZARD CLASS: NA ID: NA GROUP: NA

## X. REFERENCES

- 1) TLV's Threshold Limit Values and Biological Exposure Indices for 1980-1989, American Conference of Governmental Industrial Hygienists, 1988.
- 2) Air Contaminants, Federal Register, Vol. 54, No. 12, Thursday, January 19, 1989, pp. 2518-2523.
- 3) Sax, N. Irving. Dangerous Properties of Industrial Materials, 8th Ed. New York: Van Nostrand Reinhold Co., 1984.
- 4) The Merck Index, 10th Ed. Rahway, New Jersey: Merck and Co., Inc., 1988.
- 5) Technical judgment
- 6) Vendor information.
- 7) Oeschlin, R.E. et al. Clinical Toxicology of Commercial Products, 5th Ed. Baltimore: The Williams and Wilkins Co., 1984.
- 8) MICHM Registry of Toxic Effects of Chemical Substances, 1985-86. Cincinnati: U. S. Department of Health and Human Services, April, 1986.

SPECIAL NOTE: Sulfites are strong sensitizers. Inhalation and ingestion may  
cause allergic respiratory reactions in asthmatics. Persons with  
respiratory conditions should take special care when working with product  
that contains sulfites.THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED  
REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

(C) HACH CO. 1992

Hach Company, WORLD HEADQUARTERS, PO Box 387, Loveland, CO 80539

Hach Europe, BP 223, 35000 Nannay 1, BELGIUM

PAGE 1 OF 1

## ATTACHMENT #2

## EXCESS/WASTE CHEMICAL DISPOSITION FORM

Excess Chemical Number: 701-0149

## Part A

Generator Name: H. Watson T. Nolan Ext.: 2605 Date: 1/1  
Department: Technology Support Building: 701Property/Waste Release Evaluation: Offsite Shipment:      Phase II Authorized Release:       
Other:     Material: Ferric Chloride ID: 61-62-63-64-65-66CCS Bar Code No: 7324, 7336, 7339 CAS No:     Solid: Y Liquid: 1CN Gas:      Aerosol:      Quantity: 3 7CNContainer: Type: Plastic bottles Size: 3-1LB BTL 4-1LB BTL  
Original: Y Seal Broken? Y Condition: 7CNLocation: Bldg.: 701 Room: 101 D-1 Rad. Control Area: N Radioactive: NNFPA-704M Hazard Rating: H: 1 F: 0 R: 1 Chemical Expiration Date: 1/1Dispos. Priority: Reactive:      Questionable Container:      Expiration Date: 1/1  
Programmatic Driver:      Routine Chemical Elimination: 7CN

## Part C

Evaluator Name: Jeff Harrison Date: 10/04/93RCRA Regulated: N EPA Codes:       
Compatibility Code(s): 15 NA WFC/IDC: 1545 CCC: 2200

## Evaluation/Reference:

Ignit: <u>N</u> Ref.: <u>MSDS</u>	Corrosive: <u>N</u> Ref.: <u>MSDS</u>
Reactive: <u>N</u> Ref.: <u>MSDS</u>	Toxic: <u>N</u> Ref.: <u>40 CFR 261.24</u>
Listed: <u>N</u> Ref.: <u>40 CFR 261.33</u>	LDR: <u>N</u> Ref.: <u>40 CFR 268</u>
TSCA: <u>N</u> Ref.: <u>40 CFR 761</u>	FIFRA: <u>N</u> Ref.: <u>40 CFR 152</u>
CERCLA: <u>Y</u> Ref.: <u>40 CFR 302</u>	CERCLA RQ: <u>N</u> Ref.: <u>40 CFR 302</u>

Disposition: Lab packComments: Reacts with water to produce corrosive fumes of hydrogen chloride

## Part E

Evaluator's Name: Susan Shrader Date: 10/22/93Returned?:      Reason:     Radioactive? N Reference: Generator, see Part AWeight: 2722.0 grams Reference: 6 lb, 453.6 g/lb

DOT Proper Shipping Name:

Waste Corrosive Solids, n.o.s. (Zinc Chloride, Sulfamic Acid, Ferric Chloride)DOT Hazard Class: 8 Packing Group: IIIDOT UN No.: UN1759 Package No.: 142 WEMS Drum No.: TBDMarking: Waste Corrosive Solids, n.o.s. (Zinc Chloride, Sulfamic Acid, Ferric Chloride)

READY TO PACKAGE

Required Labels: CorrosivePacking Requirements: See general instructions for 55-gallon drumsComments:      7CN 12494  
RWO DATE

DOT 6C 5gal Metal Open Top w/ Sawdust. No Liners

BREACHMENT VERIFICATION WORKSHEET  
MULTIPLE CONTAINERS IN PRIMARY CONTAINER

Primary Container # X01751 DATE 7-21-98

Inner container #: <u>US# 0000007336</u>	Factory sealed? <u>(Y) / N</u>	Container size/volume: <u>1 lb.</u>
Container material (glass, poly, other): <u>poly opaque</u>	Percent full/volume: <u>1 lb.</u>	
Product chemical state (liquid/solid) / appearance: <u>orange solid</u>		
Compatibility Codes: <u>NA</u>	EPA Codes: <u>NONE</u>	
Name, label /info., manufacturer: <u>"FERRIC CHLORIDE 6-HYDRATE"</u>		
<u>Sharpe Chemical Company, 1116 So. Varney St., Burbank, CALIF. 91522</u>		
<u>(213) 841-7605</u>		
Chemical ingredients (list all): <u>FERRIC CHLORIDE 6-HYDRATE</u>		
Comments: <u>Label = "Manufactured prior to 3/1/90" typewritten</u>		

COPY

Inner container #: <u>7324</u>	Factory sealed? <u>(Y) / N</u>	Container size/volume: <u>1 lb.</u>
Container material (glass, poly, other): <u>poly, opaque</u>	Percent full/volume: <u>1 lb.</u>	
Product chemical state (liquid/solid) / appearance: <u>orange solid</u>		
Compatibility Codes: <u>NA</u>	EPA Codes: <u>NONE</u>	
Name, label /info., manufacturer: <u>"FERRIC CHLORIDE 6-HYDRATE"</u>		
<u>Sharpe Chemical Company, 1116 So. Varney St., Burbank, CALIFORNIA 91522</u>		
<u>(213) 841-7605</u>		
Chemical ingredients (list all): <u>FERRIC CHLORIDE 6-HYDRATE</u>		
Comments: <u>Typewritten label = "Manufactured prior to 3/1/90"</u>		

Inner container #: <u>7339</u>	Factory sealed? <u>(Y) / N</u>	Container size/volume: <u>1 lb.</u>
Container material (glass, poly, other): <u>poly opaque</u>	Percent full/volume: <u>1 lb.</u>	
Product chemical state (liquid/solid) / appearance: <u>Solid orange</u>		
Compatibility Codes: <u>NA</u>	EPA Codes: <u>NONE</u>	
Name, label /info., manufacturer: <u>"FERRIC CHLORIDE 6-HYDRATE"</u>		
<u>Sharpe Chemical Company, 1116 So. Varney St., BURBANK, CALIFORNIA 91522</u>		
<u>(213) 841-7605</u>		
Chemical ingredients (list all): <u>FERRIC CHLORIDE 6-HYDRATE</u>		
Comments: <u>Typewritten Label = "Manufactured prior to 3/1/90"</u>		

BREACHMENT VERIFIER

by Rabinal (RMRS)  
Signature

[REDACTED]  
Employee Number

7-21-98  
Date

## ATTACHMENT #3

~~SECRET~~ ROCKY FLATS

FROM: EG&G ROCKY FLATS, INC.  
 FOR: U.S. DEPARTMENT OF ENERGY  
 ROCKY FLATS PLANT  
 P.O. BOX 464  
 GOLDEN, COLORADO 80402-0464

TO: AMR INDUSTRIES, INC.  
~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~  
 3700 N. 38th AVENUE  
 Phoenix, AZ 85019

ATTN: Richard Isaac  
 FOR:  
 ORDER NO.: (602) 447-8000

Material Classification UnclassifiedShip Via Best wayB/L No. 46592Date Shipped 12/19/97 Partial        Final XFreight Code        Prepaid        Collect       Order No. A5H0410/D215S/FF332100DJO No.       Cash        Non Cash        No Charge       

## CONTAINER DATA

## CONTENTS

Number	Type	Size	Gross Wt.	Quantity	Description
1	carton	2 cubic feet	122 lb	1	carton of printed circuit boards for reclamation/recycle of precious metals.
2	fiber drum	55 gallon	381 lb	2	fiber drums, and
3	wood pallets	4' X 4'	35 lb (actual) 600 lb (est.)	3	wooden pallets of photographic film for recycle of precious metals (silver).
7	poly bung drums	55 gallon	3,061 lb.	7	55-gallon poly drums of spent photographic fixer solution for reclamation/recycle of precious metals (silver).

**'SIGN AND RETURN THIS COPY'**

FOR: EG&G ROCKY FLATS, INC.  
 U.S. DEPARTMENT OF ENERGY  
 ROCKY FLATS PLANT  
 P.O. BOX 464  
 GOLDEN, COLORADO 80402-0464  
 ATTN: Traffic Department

TOTAL CONTAINERS 13TOTAL WEIGHT 4,184 lb. 3915 actual

D.O.T. Permit No.        DC No.         
 Radiation Group        Curies         
 Surface Contamination        C/M  
 Radiation-Surface        MR/HR  
 Radiation-1 Meter        MR/HR

Requested By J. Molter X2808  
 Packed By S. Kubinski Bldg. T893A  
 Authorized By S. Kubinski Date 12/19/97  
 Received By        Date       

1-WHITE-CONSIGNEE  
 2-YELLOW-CONSIGNOR RECEIPT

3-GREEN-ACCOUNTING  
 4-WHITE-TRAFFIC

5-WHITE-NMC  
 6-WHITE-BUS. MGMT. SP. PROG.

7-YELLOW-PICKUP RECEIPT  
 8-WHITE-PROCUREMENT

9-WHITE-PACKING REQUEST  
 10-WHITE-PACKING LIST

## Packages Shipped Report

<u>Package Nbr</u>	<u>Status</u>	<u>Non-Rad Manifest</u>	<u>Destination</u>	<u>Shipment Date</u>
G04378	S	46592	AMR	12/31/97
G04379	S	46592	AMR	12/31/97
G05047	S	46592	AMR	12/31/97
X01847	S	46592	AMR	12/31/97
X01865	S	46592	AMR	12/31/97
X08334	S	46592	AMR	12/31/97
X08724	S	46592	AMR	12/31/97
X08725	S	46592	AMR	12/31/97
X08826	S	46592	AMR	12/31/97
X08947	S	46592	AMR	12/31/97
X08948	S	46592	AMR	12/31/97

Total Packages Assigned to Non-Rad Manifest 46592 = 11

COPY



## ATTACHMENT #4

# WASTE/RESIDUE TRAVELER

## SECTION I

## ORIGINATION INFORMATION

### SUBSECTION 1A

### GENERAL INFORMATION

(PLEASE PRINT)

① ☐ RADIOACTIVE ☒ NON-RADIOACTIVE

② SETUP DATE 3-29-96 BUILDING NUMBER 556 ROOM NUMBER/AREA 111  
ORGANIZATION RWO OPS. MGR. D. Peirson  
RCRA UNIT ID. NUMBER AT THE POINT OF GENERATION NA EMPLOYEE NO. [REDACTED]

### SUBSECTION 1B

### CONTAINER INFORMATION

③ TYPE OF CONTAINER

☒ DRUM ☐ BOX ☐ CYLINDER ☐ OTHER \_\_\_\_\_

④a TYPE OF DRUM ☐ N/A

☒ OPEN TOP ☐ BUNG ☐ POLY

④b DRUM CAPACITY

☒ 10 GALLON ☐ 35 GALLON  
☐ 15 GALLON ☐ 55 GALLON  
☐ 30 GALLON ☐ 83/85 GALLON OVERPACK  
☐ OTHER \_\_\_\_\_

⑤ TYPE OF WASTE BOX

☒ N/A ☐ PLYWOOD STANDARD ☐ PLYWOOD HALF ☐ METAL  
☐ TRUPACT II ☐ OVERPACK ☐ SPECIAL \_\_\_\_\_

⑥ INNER LINER

☒ N/A ☐ VENTED RIGID LINER ☐ NON-VENTED RIGID LINER ☐ LEAD LINER ☐ LEAD TAPE LINER  
☐ FIBERBOARD LINER ☐ ONE PLASTIC LINER ☐ TWO PLASTIC LINERS ☐ WOOD LINER

⑦a CONTAINER NUMBER

☐ N/A

XO 4832

WMS ROCKY FLATS



\*X04832055600003\*

### SUBSECTION 1C

### CONTENT INFORMATION

#### RADIOACTIVE USE ONLY

FOLLOW THE APPROPRIATE CRITICALITY SAFETY OPERATING LIMITS (CSOL)  
OR THE NUCLEAR MATERIAL SAFETY LIMITS (NMSL).

⑧

☐ LINE GENERATED

☐ NON-LINE GENERATED

⑨

U235 FISSILE LIMIT

☐ 15 GRAMS

⑩

IDC/WFC

1545

⑪

CONTENT TYPE

☒ SOLID

☐ LIQUID

☐ GAS

⑫

WRITTEN DESCRIPTION OF CONTENTS (IDENTIFY NON/STD, MATERIALS/CONDITIONS)

Solid Excess Chemicals

N.A.

34





## SUBSECTION 1D -continued-

## (15) SUPERVISOR STATEMENT :

THE CONTENTS OF THIS CONTAINER ARE CONSISTENT WITH THE WASTE/RESIDUE STREAM AS DEFINED IN THE WASTE STREAM AND RESIDUE IDENTIFICATION AND CHARACTERIZATION BUILDING BOOK OR APPROVED NON-ROUTINE WASTE ORIGINATION LOG, AND TO THE BEST OF MY KNOWLEDGE, THIS CONTAINER HAS BEEN PACKAGED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT APPLICABLE PACKAGING PROCEDURE

SUPERVISOR SIGNATURE DoneEMPLOYEE NUMBER [REDACTED]DATE 3/28/96

IF NO,  IMMEDIATELY, CONTACT THE ENVIRONMENTAL COORDINATOR FOR FURTHER DIRECTION.

- (16) A. IF SOLID AND RADIOACTIVE OR MIXED, GO TO SUBSECTION 1E.  
 B. IF SOLID AND NONRADIOACTIVE, RCRA-/TSCA-REGULATED, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL, GO TO SUBSECTION 1E.  
 C. IF LIQUID FOR PROCESSING, GO TO BLOCK 13, THEN GO TO SUBSECTION 1E.  
 D. IF LIQUID AND RCRA-/TSCA-REGULATED OR MIXED, FOR STORAGE, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL, GO TO SUBSECTION 1E.  
 E. IF SANITARY WASTE FOR THE LANDFILL, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL GO TO SUBSECTION 1E.

## SUBSECTION 1E

## CONTAINER CLOSURE INFORMATION

## (17) CONTAINER PROPERLY CLOSED AND SEALED

SUPERVISOR  
SIGNATURE DoneEMPLOYEE NUMBER [REDACTED]DATE 3/28/96

## (18) CONTAINER TID PROPERLY APPLIED

CONTAINER TID NO. \_\_\_\_\_

CARBON FILTER TID  
NO. (IF APPLICABLE) \_\_\_\_\_☒ N/A

SIGNATURE \_\_\_\_\_

EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_

## SECTION II

## RADIATION PROTECTION



N/A

SIGNATURE DoneEMPLOYEE NUMBER [REDACTED]DATE 3/28/96

## (1) CONTAINER SURVEYED FIXED

ALPHA CONTAMINATION  
FIXED < 250 C/M OUTSIDE \_\_\_\_\_BETA CONTAMINATION  
FIXED < 5000 C/M OUTSIDE \_\_\_\_\_

RCT SIGNATURE \_\_\_\_\_

EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_

## (2) CONTAINER SURVEYED REMOVABLE

ALPHA CONTAMINATION  
REMOVABLE < 20 D/M/100 CM<sup>2</sup> OUTSIDE \_\_\_\_\_BETA CONTAMINATION  
REMOVABLE < 200 D/M/100 CM<sup>2</sup> OUTSIDE \_\_\_\_\_

RCT SIGNATURE \_\_\_\_\_

EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_

## (3) CONTAINER SURVEYED GAMMA/NEUTRON

## RADIATION LEVELS

GAMMA \_\_\_\_\_ mrem/hr @ SURFACE \_\_\_\_\_ mrem/hr @ 30 CM \_\_\_\_\_ mrem/hr @ 1 METER

NEUTRON \_\_\_\_\_ mrem/hr @ SURFACE \_\_\_\_\_ mrem/hr @ 30 CM \_\_\_\_\_ mrem/hr @ 1 METER

TOTAL \_\_\_\_\_ mrem/hr @ SURFACE \_\_\_\_\_ mrem/hr @ 30 CM \_\_\_\_\_ mrem/hr @ 1 METER

RCT SIGNATURE \_\_\_\_\_

EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_

## SECTION III

## WASTE OPERATIONS

PAGE 1 OF 1

## SUBSECTION 3A NONDESTRUCTIVE ASSAY/LIQUID WASTE OPERATIONS



N/A

SIGNATURE

*C. Jones*

EMPLOYEE NUMBER

[REDACTED]

DATE

3/28/96

IDC

BAR CODE LABEL

FOR NMC/NDA REFERENCE USE ONLY

CONTAINER TID

CARBON

FILTER TID

## 1. CONTAINER COUNTED/CONTAINER COUNT SHEET ATTACHED TO TRAVELER, BAR CODE APPLIED

GROSS WEIGHT \_\_\_\_\_ ISOTOPE - PRIMARY \_\_\_\_\_ GRAMS \_\_\_\_\_

TARE WEIGHT \_\_\_\_\_ ISOTOPE - SECONDARY \_\_\_\_\_ GRAMS \_\_\_\_\_

BUILDING \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

COUNTER \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

NDA SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## 2. SAFEGUARDS COUNT REQUIRED

☐

YES

☐

NO

NDA SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## 3. FOR SLUDGE DRUMS REQUIRING ANALYTICAL DATA

GROSS WEIGHT \_\_\_\_\_ ISOTOPE - PRIMARY \_\_\_\_\_ GRAMS \_\_\_\_\_

NET WEIGHT \_\_\_\_\_ ISOTOPE - SECONDARY \_\_\_\_\_ GRAMS \_\_\_\_\_

SAMPLING LABORATORY \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

LWO SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## SUBSECTION 3B

## STORAGE OR SHIPPING CATEGORY

☐

RESIDUE

☐

TRU

☐

LOW LEVEL

☐

TSCA

☐RCRA  
REGULATED☒NON-RCRA  
REGULATED

SIGNATURE

*C. Jones*

EMPLOYEE NUMBER

[REDACTED]

DATE

3/28/96

## SUBSECTION 3C

## BUILDING 664 OPERATIONS



N/A

SIGNATURE

*C. Jones*

EMPLOYEE NUMBER

[REDACTED]

DATE

3/28/96

## WASTE OPERATIONS RECEIVING INSPECTION

GROSS WEIGHT \_\_\_\_\_ POUNDS

664 OPS

SIGNATURE

EMPLOYEE NUMBER

DATE

## SUBSECTION 3D

## HAZARDOUS WASTE OPERATIONS

☐ N/A SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## A. LIQUID WASTE SAMPLING

☐ N/A

☐ GROSS ALPHA/BETA LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_

☐ FINGERPRINT LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_

☐ ALPHA SCAN LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_

6 INCH FREEBOARD PRESENT ☐ YES ☐ NO

SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## B. SANITARY LANDFILL AUTHORIZATION

AUTHORIZED LANDFILL  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## C. ONSITE MOVEMENT AND STORAGE

APPROVED FOR MOVEMENT AND STORAGE IN PUEB CARGO CONTAINER NUMBER \_\_\_\_\_

HWO SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED] DATE 4-29-96

## SECTION IV

## TRUCKING / TRAFFIC

① VERIFY CONTAINER NUMBER WITH NMDTR/SOURCE DOCUMENT.  
VERIFY TID NUMBER AND TID INTEGRITY (IF APPLICABLE).  
DATE 4-2-96 FROM BUILDING 556 TO BUILDING 1040

☒ TRUCKING ☐ TRAFFIC  
SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED]  
DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

☒ TRUCKING ☐ TRAFFIC  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_  
DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

☐ TRUCKING ☐ TRAFFIC  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_  
DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

☐ TRUCKING ☐ TRAFFIC  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_  
DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

☐ TRUCKING ☐ TRAFFIC  
SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_  
DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

## SECTION V

## QUALITY ASSURANCE

## SUBSECTION 5A

## WASTE INSPECTION



N/A

SIGNATURE

*Don*

EMPLOYEE NUMBER

[REDACTED]

DATE

3/28/96

## ① INPROCESS PACKAGING INSPECTION



N/A

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
<input type="checkbox"/>	<input type="checkbox"/>			

## ② DOCK INSPECTION (PER INSPECTION CHECKLIST)

TORQUE WRENCH NO. \_\_\_\_\_

CAL. EXP. DATE \_\_\_\_\_

A.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
B.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
C.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
D.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
E.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
F.	PRE COUNTER	POST COUNTER	ACCEPT	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE	TAMPER SEAL NUMBER
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

## ③ FINAL INSPECTION

<input type="checkbox"/>	ACCEPT	<input type="checkbox"/>	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
--------------------------	--------	--------------------------	--------	-------------------------------	-------------------	------

RE-INSPECTION

<input type="checkbox"/>	ACCEPT	<input type="checkbox"/>	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
--------------------------	--------	--------------------------	--------	-------------------------------	-------------------	------

## ④ WASTE PRESHIPPING INSPECTION (PER INSPECTION CHECKLIST)

<input type="checkbox"/>	ACCEPT	<input type="checkbox"/>	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
--------------------------	--------	--------------------------	--------	-------------------------------	-------------------	------

RE-INSPECTION

<input type="checkbox"/>	ACCEPT	<input type="checkbox"/>	REJECT	NCR NUMBER (IF APPLICABLE)	WASTE INSP. STAMP	DATE
--------------------------	--------	--------------------------	--------	-------------------------------	-------------------	------



## SUBSECTION 5B

## NONDESTRUCTIVE TESTING



N/A

SIGNATURE

*Don*

EMPLOYEE NUMBER

[REDACTED]

DATE

*3/28/96*

## ⑤ RTR EXAMINATION



ACCEPT



REJECT



NO DISPOSITION

NCR NUMBER

NDT

SIGNATURE

EMPLOYEE NUMBER

DATE

## SME EXAMINATION



ACCEPT



REJECT

NCR NUMBER

SME

SIGNATURE

EMPLOYEE NUMBER

DATE

## RE-RTR EXAMINATION



ACCEPT



REJECT



ACCEPT WITH SME CONCURRENCE

NCR NUMBER

NDT

SIGNATURE

EMPLOYEE NUMBER

DATE

TAPE NUMBER

TAPE FOOTAGE START TIME

END TIME

## SUBSECTION 5C

## WASTE QUALITY ENGINEERING AND CERTIFICATION



N/A

SIGNATURE

*Don*

EMPLOYEE NUMBER

[REDACTED]

DATE

*3/28/96*

## ⑥ CONTAINER CERTIFICATION



ACCEPT



REJECT

NCR NUMBER

WASTE CERTIFIER

SIGNATURE

EMPLOYEE NUMBER

DATE

CONTAINER CERTIFICATION (NONCOMPLIANCE CORRECTED)



ACCEPT



REJECT

NCR NUMBER

MANIFEST NUMBER

TRAILER/TRUPACT II NO.

LOAD LIST NUMBER

WASTE CERTIFIER

SIGNATURE

EMPLOYEE NUMBER

DATE

## ⑦ WASTE DISPOSITION / DISPOSAL

DATE SHIPPED

B L / MANIFEST #

DESTINATION

SIGNATURE

EMPLOYEE NUMBER

DATE

## SECTION VI

PAGE 1 OF 1

**COMMENTS:**

CONTAINER NUMBER

**PAGE 9**

TRAVELER NO. 29112

42

# WASTE/RESIDUE TRAVELER

## SECTION I

## ORIGINATION INFORMATION

### SUBSECTION 1A

### GENERAL INFORMATION

(PLEASE PRINT)

① ☐ RADIOACTIVE ☒ NON-RADIOACTIVE

② DATE 1-27-94 BUILDING NUMBER 701 ROOM NUMBER/AREA 101  
ORGANIZATION Tech Development OPS. MGR. J. Bowers / T D/A  
RCRA UNIT ID. NUMBER AT THE POINT OF GENERATION 701-2031

### SUBSECTION 1B

### CONTAINER INFORMATION

③ TYPE OF CONTAINER



DRUM



BOX



CYLINDER



OTHER

④a TYPE OF DRUM ☐ N/A



OPEN TOP



BUNG



POLY

④b DRUM CAPACITY



35 GALLON



5 GALLON



55 GALLON



15 GALLON



83/85 GALLON OVERPACK

⑤ TYPE OF WASTE BOX



N/A



PLYWOOD STANDARD



PLYWOOD HALF



METAL

☐ TRUPACT II



OVERPACK



SPECIAL

⑥ INNER LINER



N/A



VENTED RIGID LINER



NON-VENTED RIGID LINER



LEAD LINER



LEAD TAPE LINER

☐ FIBERBOARD LINER



ONE PLASTIC LINER



TWO PLASTIC LINERS



WOOD LINER

⑦a CONTAINER NUMBER

☐ N/A

X01751



\*X01751070100297\*

### SUBSECTION 1C

### CONTENT IN

### RADIOACTIVE USE ONLY

FOLLOW THE APPROPRIATE CRITICALITY SAFETY OPERATING LIMITS (CSOL) OR THE NUCLEAR MATERIAL SAFETY LIMITS (NMSL).

⑧



LINE GENERATED



NON-LINE GENERATED



⑨ U235 FISSION LIMIT



15 GRAMS

⑩

IDC/WFC

1545

⑪

CONTENT TYPE



SOLID



LIQUID



GAS

⑫

WRITTEN DESCRIPTION OF CONTENTS

Excess Chemical Solid (Dm-haz)

CC NA

SUBSECTION 1C		CONTAINER CONTENT INFORMATION	
CONSTITUENT NUMBER	CONSTITUENT	COMPATIBILITY CODE	
		SOLIDS	LIQUIDS
00	NONE	N/A	N/A
01	ACETONE	N/A	4A
02	ACID	N/A	1B
03	ARSENIC	N/A	N/A
04	BARIUM	N/A	N/A
05	BASE	N/A	1A
06	BENZENE	N/A	4A
07	BERYLLIUM	N/A	N/A
08	CADMIUM	N/A	N/A
09	CALCIUM	2A	2A
10	CARBON TETRACHLORIDE	N/A	4A
11	CHLOROFORM	N/A	4A
12	CHROMIUM	N/A	N/A
13	CYANIDE	N/A	5A
14	DENATURED ALCOHOL	N/A	3A
15	DE - SOLV - IT	N/A	4A
16	DOP	N/A	4A
17	2 - ETHOXYETHANOL	N/A	3A
18	ETHYL ALCOHOL	N/A	3A
19	ETHYLENE GLYCOL	N/A	3A
20	FREON	N/A	4A
21	----- Intentionally left blank -----	-----	-----
22	iso - BUTYL ALCOHOL	N/A	3A
23	iso - PROPYL ALCOHOL	N/A	3A
24	LEAD	N/A	N/A
25	MAGNESIUM	2A	2A
26	MERCURY	N/A	N/A
27	METHANOL	N/A	3A
28	METHYL ETHYL KETONE	N/A	4A
29	METHYLENE CHLORIDE	N/A	4A
30	n - BUTYL ALCOHOL	N/A	3A
31	NICKEL	N/A	N/A
32	OIL (USED)	N/A	4A
33	OXIDIZER	N/A	6A
34	PAINT THINNER	N/A	4A
35	SELENIUM	N/A	N/A
36	SILVER	N/A	N/A
37	SULFIDE	N/A	5A
38	TOLUENE	N/A	4A
39	1, 1, 1 - TRICHLOROETHANE	N/A	4A
40	TRICHLOROETHYLENE	N/A	4A
41	TRIMSOL	N/A	3A
42	VAR SOL	N/A	4A
43	VINYL CHLORIDE	N/A	4A
44	XYLENE	N/A	4A
70	ASBESTOS	N/A	N/A
71	PCB	N/A	N/A
A9	AQUEOUS SLUDGE	N/A	
B1	OASIS SLUDGE	N/A	
PC	POND CRETE	N/A	
SC	SALT CRETE	N/A	
BS	DCP BYPASS SLUDGE	N/A	

CONTENTS LOG SHEET PAGE 1 OF 1

\* The signature above affirms that, to the best of my knowledge and belief, the WASTE/RESIDUE in this container is properly identified. This determination is based on personal knowledge of the material, laboratory analysis for RCRA hazardous constituents, or credible information obtained from third parties. I understand that under RCRA regulations, penalties for knowingly and willfully submitting false statements regarding RCRA hazardous WASTE/RESIDUE may include a *fine and imprisonment*. Also, this affirms that the material is consistent with the IDC/WFC.

-- The verification signature above affirms the following: a) the container is controlled by the key custodian when the package is placed in it; b) the package placed in the container is documented as to source, is uniquely numbered and visually inspected to assure that the material is consistent with the IDC, contains no compressed gases or free liquid unless specifically allowed as part of the waste form.

TRAVELER NO 6016

14 ARE ANY PACKAGES IN THE CONTAINER SUBJECT TO LAND DISPOSAL RESTRICTIONS PER WSRIC?

☐

YES

☒

NO

☐

UNKNOWN

15 SUPERVISOR STATEMENT :

THE CONTENTS OF THIS CONTAINER ARE CONSISTENT WITH THE WASTE/RESIDUE STREAM AS DEFINED IN THE WASTE STREAM AND RESIDUE IDENTIFICATION AND CHARACTERIZATION BUILDING BOOK AND TO THE BEST OF MY KNOWLEDGE, THIS CONTAINER HAS BEEN PACKAGED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT APPLICABLE PACKAGING PROCEDURE.

SUPERVISOR  
SIGNATURE

*J. R. Garcia*

EMPLOYEE NUMBER

[REDACTED]

DATE

1-27-94

IF NO,



IMMEDIATELY, CONTACT WASTE GUIDANCE FOR FURTHER DIRECTION.

- 16
- A. IF SOLID AND RADIOACTIVE OR MIXED, GO TO SUBSECTION 1E.
  - B. IF SOLID AND NON-RADIOACTIVE, RCRA/TSCA REGULATED, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL, GO TO SUBSECTION 1E.
  - C. IF LIQUID FOR PROCESSING, GO TO BLOCK 13, THEN GO TO SUBSECTION 1E.
  - D. IF LIQUID AND RCRA/TSCA REGULATED OR MIXED, FOR STORAGE, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL, GO TO SUBSECTION 1E.
  - E. IF SANITARY WASTE FOR THE LANDFILL, CONTACT HAZARDOUS WASTE OPERATIONS. AFTER HWO APPROVAL, GO TO SUBSECTION 1E.

SUBSECTION 1E

CONTAINER CLOSURE INFORMATION

17 CONTAINER PROPERLY CLOSED AND SEALED.

SUPERVISOR  
SIGNATURE

*J. R. Garcia*

EMPLOYEE NUMBER

[REDACTED]

DATE

1-27-94

18 CONTAINER PROPERLY TID'D. (RADIOACTIVE USE ONLY)

☒ N/A

CONTAINER TID NO.

CARBON FILTER TID  
NO. (IF APPLICABLE)

TID APPLICATOR  
SIGNATURE

EMPLOYEE NUMBER

DATE

SECTION II

RADIATION PROTECTION

☒

N/A

SIGNATURE

*J. R. Garcia*

EMPLOYEE NUMBER

[REDACTED]

DATE

1-27-94

1 CONTAINER SURVEYED FIXED

ALPHA CONTAMINATION  
FIXED < 250 C/M OUTSIDE

*5250 cpm*

BETA CONTAMINATION  
FIXED < 5000 C/M OUTSIDE

*5000 cpm*

RPT SIGNATURE

*[Signature]*

EMPLOYEE NUMBER

[REDACTED]

DATE

2/2/94

2 CONTAINER SURVEYED REMOVABLE

ALPHA CONTAMINATION

REMOVABLE < 20 D/M/100 CM<sup>2</sup> OUTSIDE

*5200 cpm*

BETA CONTAMINATION

REMOVABLE < 200 D/M/100 CM<sup>2</sup> OUTSIDE

*2000 cpm*

RPT SIGNATURE

*[Signature]*

EMPLOYEE NUMBER

[REDACTED]

DATE

2/2/94

3 CONTAINER SURVEYED (GAMMA/NEUTRON)

RADIATION LEVELS

GAMMA *0.13* mrem/hr @ SURFACE *0.0* mrem/hr @ 30 CM *0.0* mrem/hr @ 1 METER

NEUTRON *0.0* mrem/hr @ SURFACE *0.0* mrem/hr @ 30 CM *0.0* mrem/hr @ 1 METER

TOTAL *0.13* mrem/hr @ SURFACE *0.0* mrem/hr @ 30 CM *0.0* mrem/hr @ 1 METER

RPT SIGNATURE

*[Signature]*

EMPLOYEE NUMBER

[REDACTED]

DATE

2/2/94

## SECTION III

## WASTE OPERATIONS

## SUBSECTION 3A NON-DESTRUCTIVE ASSAY/LIQUID WASTE OPERATIONS



N/A

SIGNATURE

*S.R. Gavin*

EMPLOYEE NUMBER

*[REDACTED]*

DATE

*1-27-94*

①

IDC

BAR CODE LABEL

FOR NMC/NDA REFERENCE USE ONLY

CONTAINER TID

CARBON

FILTER TID

## A. CONTAINER COUNTED/CONTAINER COUNT SHEET ATTACHED TO TRAVELER, BAR CODE APPLIED.

GROSS WEIGHT \_\_\_\_\_ ISOTOPE - PRIMARY \_\_\_\_\_ GRAMS \_\_\_\_\_

TARE WEIGHT \_\_\_\_\_ ISOTOPE - SECONDARY \_\_\_\_\_ GRAMS \_\_\_\_\_

BUILDING \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

COUNTER \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

NDA SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## B. FOR SLUDGE DRUMS REQUIRING ANALYTICAL DATA.

GROSS WEIGHT \_\_\_\_\_ ISOTOPE - PRIMARY \_\_\_\_\_ GRAMS \_\_\_\_\_

NET WEIGHT \_\_\_\_\_ ISOTOPE - SECONDARY \_\_\_\_\_ GRAMS \_\_\_\_\_

SAMPLING LABORATORY \_\_\_\_\_ ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

ISOTOPE - ADDITIONAL \_\_\_\_\_ GRAMS \_\_\_\_\_

LWO SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## C. SAFEGUARDS COUNT REQUIRED?

☐

YES

☐

NO

NDA SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

②

## STORAGE OR SHIPPING CATEGORY.

☐

RESIDUE

☐

TRU

☐

LOW LEVEL

☐

MIXED

NDA SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## SUBSECTION 3B

## WASTE ASSAY AND SHIPPING OPERATIONS



N/A

SIGNATURE

*S.R. Gavin*

EMPLOYEE NUMBER

*[REDACTED]*

DATE

*1-27-94*

③

## WASTE OPERATIONS RECEIVING INSPECTION.

GROSS WEIGHT \_\_\_\_\_ POUNDS

WA&amp;S

SIGNATURE

EMPLOYEE NUMBER

DATE

## SUBSECTION 3C

## HAZARDOUS WASTE OPERATIONS

☐ N/A SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

- ④ A. LIQUID WASTE SAMPLING. ☐ GROSS ALPHA/BETA LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
☒ N/A ☐ FINGERPRINT LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_  
☐ ALPHA SCAN LAB REQ NO. \_\_\_\_\_ DATE SAMPLED \_\_\_\_\_

HWO SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED] DATE 1/31/94

## B. SANITARY LANDFILL AUTHORIZATION.

AUTHORIZED LANDFILL SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## C. ON - SITE MOVEMENT AND STORAGE.

APPROVED FOR MOVEMENT AND STORAGE IN P.O.D CARGO CONTAINER 2-1624 R.D.

HWO SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED] DATE 1/31/94

## SECTION IV

☒ TRUCKING / TRAFFIC ☐

☐ N/A SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

- ① VERIFY CONTAINER NUMBER WITH NMDTR/SOURCE DOCUMENT.  
VERIFY TID NUMBER AND TID INTEGRITY (IF APPLICABLE).

DATE 2-3-94 FROM BUILDING 701 TO BUILDING 669

TRUCKING/TRAFFIC SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED]

DATE 2-17-94 FROM BUILDING 664 TO BUILDING UNIT 7

TRUCKING/TRAFFIC SIGNATURE [Signature] EMPLOYEE NUMBER [REDACTED]

DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

TRUCKING/TRAFFIC SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

TRUCKING/TRAFFIC SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_

DATE \_\_\_\_\_ FROM BUILDING \_\_\_\_\_ TO BUILDING \_\_\_\_\_

TRUCKING/TRAFFIC SIGNATURE \_\_\_\_\_ EMPLOYEE NUMBER \_\_\_\_\_



## SECTION V

## QUALITY ASSURANCE

## SUBSECTION 5A

## WASTE INSPECTION



N/A

SIGNATURE

S. R. [Signature]

EMPLOYEE NUMBER

[Redacted]

DATE

1-27-84

## 1. IN-PROCESS PACKAGING INSPECTION



N/A

ACCEPT REJECT WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATE

ACCEPT

REJECT

WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATEACCEPT REJECT WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATE

ACCEPT

REJECT

WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATEACCEPT REJECT WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATE

ACCEPT

REJECT

WRR NUMBER  
(IF APPLICABLE) WASTE INSP. STAMP DATE

## 2. DOCK INSPECTION (PER INSPECTION CHECKLIST)

TORQUE WRENCH NO. \_\_\_\_\_

CAL. EXP. DATE \_\_\_\_\_

A. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

B. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

C. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

D. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

E. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

F. PRE COUNTER POST COUNTER ACCEPT REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

TAMPER SEAL NUMBER

## 3. FINAL INSPECTION



ACCEPT



REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

RE-INSPECTION



ACCEPT



REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

## 4. WASTE PRE - SHIPPING INSPECTION (PER INSPECTION CHECKLIST)



ACCEPT



REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

RE-INSPECTION



ACCEPT



REJECT

WRR NUMBER  
(IF APPLICABLE)

WASTE INSP. STAMP

DATE

## SUBSECTION 5B

## NON-DESTRUCTIVE TESTING



N/A

SIGNATURE

*J.R. Moore*

EMPLOYEE NUMBER

DATE

*1-27-94*

## 5. RTR EXAMINATION



ACCEPT



REJECT

WRR NUMBER

NDT

SIGNATURE

*J.R. Moore*

EMPLOYEE NUMBER

DATE

*2-10-94*

## RE-RTR EXAMINATION



ACCEPT



REJECT

WRR NUMBER

NDT

SIGNATURE

EMPLOYEE NUMBER

DATE

## SUBSECTION 5C

## WASTE QUALITY ENGINEERING



N/A

SIGNATURE

*J.R. Moore*

EMPLOYEE NUMBER

DATE

*1-27-94*

## 6. CONTAINER CERTIFICATION



ACCEPT



REJECT

WRR NUMBER

WASTE CERTIFIER

SIGNATURE

EMPLOYEE NUMBER

DATE

## CONTAINER CERTIFICATION (NON-COMPLIANCE CORRECTED)



ACCEPT



REJECT

WRR NUMBER

MANIFEST NUMBER

TRAILER/TRUPACT II NO.

LOAD LIST NUMBER

WASTE CERTIFIER

SIGNATURE

EMPLOYEE NUMBER

DATE

## SECTION VI

## COMMENTS

*p1 10 gallon changed to 5 gal 1-27-94 JRM*